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 **EG&G ROCKY FLATS**
INTEROFFICE CORRESPONDENCE

DATE: July 19, 1993

TO: M. C. Broussard, Facility Operations Management, Bldg. 080, x8517

FROM: M. E. Levin, Geosciences, Bldg. 080, x8580 *MSL*

SUBJECT: TRAILER SPACE ALLOCATION REVIEW FOR GEOSCIENCES DIVISION -
MEL-044-93

The Geosciences Division is currently use assigned space within the 891 trailer complex in support of groundwater and soils programs for both protection and restoration. This memorandum is a review and justification for this space and the following details the space usage.

Soils Monitoring and Assessment Program

The Soils Science Group (SSG) conducts a variety of activities in its laboratory in trailer T891R. The technology used by the SSG to assess the fate and transport of contaminants in soil are developed at T891R. The workshop and computing facility are being used to develop the Surficial Soil Water Monitoring System (SSWMS).

Some of the many vital activities currently being conducted there include bench testing of various automated tensiometer designs and associated data logging and control systems, fabrication of tensiometer prototypes, development of a graphical user interface for monitoring and control of field instrumentation, development of snowmelt monitoring instrumentation, development of rain simulation hardware, and design and fabrication of Time Domain Reflectometry calibration apparatus.

The laboratory acts as a base station to retrieve and process data from the field via radio telemetry. Real time monitoring of field instrumentation is conducted at the lab. The base station is used to remotely control and program field instrumentation. All samples collected by the SSG are catalogued, packaged, and shipped from T891R.

The lab space also acts as a staging area for all field operation. SSG field crews, of as many as 15 people, are based at the trailer. The small amount of space presently available to the SSG at T891R is being used to maximum capacity.

Groundwater Monitoring and Assessment Program

This 4-Plex trailer T891O has been leased for subcontractors use only. When subcontractors leave, the lease will be terminated.

At present time Woodward-Clyde Federal Services (WCFS) has approximately 15 full time employees working 10-hour days in the Groundwater Monitoring Program. Their use of the trailer is as follows:

ADMIN RECORD

A-SW-000696

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1. The data processing and data validation room, consists of two computers and three special purpose printers. Two to three employees process and validate approximately 75 records daily. Records are also filed and stored here.
2. With new well specific data required, another computer to process this data will be required. However, there is not adequate space currently available in the computer room to accommodate the additional equipment.
3. One room is used by the Site Supervisor and the Site Health and Safety Officer.
4. Three rooms are used for the decontamination pad operations which involves five employees and their use of a computer.
5. A small room is for storage of coolers with samples that are on "hold" and waiting for shipment to labs. At times there are over 30 coolers waiting for shipment.
6. Next is a "mud room" and next to it is a "change out room" that stores 15-30 pairs of boots, Department of Energy coveralls, insulated coveralls, scrubs, socks and is used on a daily basis. Personal lockers are located in this area.
7. We have an "acid room/lab" room in which we store acids and bases. In here we add small amounts to approximately 3,000 sample bottles each quarter as preservatives.
8. Supplies and field parts are stored in the hallway.
9. The shipping room is at the east end by the loading dock. This is an active area where bottles are put in coolers readied for sampling crews. There are approximately 12 coolers a day packed for the field. In the afternoon full coolers are brought here to be checked for Quality Assurance (QA) and samples that need to be cooled are stored in one of two refrigerators. Samples cannot be shipped to the labs the day collected pending results from radiological screen. But previous days samples can be packed in a cooler using ice from the freezer, vermiculite added, waybills entered, and the cooler taped. The coolers may go to 5 different labs on a given day. There is a desk in the shipping room where there may be 40 chain of custodies to QA. We have shelves for storing samples waiting for shipment.
10. Our next room is the "di water room". We use from 70 to 100 five-gallon bottles of di water every 2 weeks. At this time, we need to put the water in a place that is clean, and in the winter months it is necessary to have a heated room to keep water from freezing.

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11. Next is our instrumentation room that has the radiation sources contained. This room is a secured area that the Health and Safety Officer has jurisdiction over.
12. The following small room is the clean bottle area. This is a short term holding area for sample bottles previously stored in a conex. There is not enough room in the shipping area to accommodate the bottles. We use approximately 4,500 sample bottles during a quarter.
13. The larger center room is known as the conference room, lunch room, map room, training room, and an area for sampling crews to complete their paperwork. The sampling crews generate approximately 75 to 80 pages of information daily so they get a high priority for this area's use. Several meetings a week are held here between EG&G and client, many with 12 to 14 people attending. Health and Safety meetings are held here by WCFS groundwater personnel several times a week which have approximately 15 people in attendance. This room is also used for training to explain changes in standard operating procedures and training new personnel. On the walls are the well numbers that the site supervisor uses for tracking on the progress of sampling activities.

Well Abandonment and Replacement Project (WARP)

The WARP program supports 10 personnel, soon to be 15, and currently has only one dedicated room assigned to the project and some shared space with Surface Water. The deficiency in the assigned space is that there is nowhere to hold meetings/briefings with field personnel, no locker space or change areas, and no lunch facilities. The field supervisor shares an office with two others. The one room assigned in T891K is used for core logging activities. The room is inadequate for hot sample handling since it does not have hoods.

The WARP project also has one conex assigned for storage space. This will soon be inadequate.

SUMMARY

Geosciences requests that the WARP Program be moved into T891O instead of the Decontamination Facility crew to combine Geosciences Groundwater Projects in one facility.

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